

SEQUENCE LISTING

<110> Gartenhaus, Ronald P.

<120> MCT-1, A Human Oncogene

<130> 209598.5002/30U1

<140> Not Yet Assigned

<141> 2000-11-10

<150> US 60/085,029

<151> 1998-05-11

<150> PCT/US99/10184

<151> 1999-05-10

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<223> Human cDNA

<400> 1

```

gctacctcca actgctgagg aaccgggttg ctaaaaggag ccggcaaaag cgcctacgtg 60
gagtccagag gaggcgaagt agtcagattt gactgagagc cgtaaagcgc ggctggctct 120
cgttttccgg ataacgacta cagctccgac tgtcagtgcc ggcccttcctc gtgtgagggg 180
atctgccgga cccctgcaaa ttcaatttct ttccattcc gggcccttcc ctatcgtcgc 240
ccccttcacc ttggatcatg ttcaagaaat ttgatgaaaa agaaaatgtg tccaactgca 300
tccagttgaa aacttcagtt attaagggtt ttaagaatca attgatagag caatttccag 360
gtattgaacc atggcttaat caaatcatgc ctaagaaaga tcctgtcaaa atagtccgat 420
gccatgaaca tatagaaatc cttacagtaa atggagaatt actctttttt agacaaagag 480
aagggccttt ttatccaacc ctaagattac ttcacaaata tccttttata ctgccacacc 540
agcagggttg taaaggagcc atcaaatttg tactcagtgg agcaaataatc atgtgtccca 600
ggcttaactt ctctggagc taagctttac cctgctgcag tagataccat tgttgctatc 660
atggcagaag gaaaacagca tgctctatgt gttggagtca tgaagatgtc tgcagaagac 720
attgagaaag tcaacaaagg aattggcatt gaaaatatcc attattttaa tgatgggctg 780
tggcatatga agacatatata atgagcctca gaaggaatgc acttgggcta aatatggata 840
ttgtgctgta tctgtgtttg tgtctgtgtg tgacagcatg aagataatgc ctgtgggttat 900
gctgaataaaa ttcaccagat gctaaaaaaaa aaaaaaaaaa aaaa 944

```

[illegible]

```

<400> 2
Met Phe Lys Lys Phe Asp Glu Lys Glu Asn Val Ser Asn Cys Ile Gln
  1             5             10             15
Leu Lys Thr Ser Val Ile Lys Gly Ile Lys Asn Gln Leu Ile Glu Gln
      20             25             30
Phe Pro Gly Ile Glu Pro Trp Leu Asn Gln Ile Met Pro Lys Lys Asp
      35             40             45
Pro Val Lys Ile Val Arg Cys His Glu His Ile Glu Ile Leu Thr Val
      50             55             60
Asn Gly Glu Leu Leu Phe Phe Arg Gln Arg Glu Gly Pro Phe Tyr Pro
      65             70             75             80
Thr Leu Arg Leu Leu His Lys Tyr Pro Phe Ile Leu Pro His Gln Gln
      85             90             95
Val Asp Lys Gly Ala Ile Lys Phe Val Leu Ser Gly Ala Asn Ile Met
      100            105            110
Cys Pro Arg Leu Asn Phe Ser Trp Ser
      115            120

```

<220>
<223> Description of Artificial Sequence: Primer HuT 78F

25

2

031001

```
<400> 4
ctgtcaaaat agtccgatgc cacg                                     24
```

<220>
<223> Description of Artificial Sequence: pCMV-MCT-1
Generation Primer (+)

<400> 5
gctgaggatc cggttgcccta aaag 24

<220>
<223> Description of Artificial Sequence: pCMV-MCT-1
Generation Primer (-)

<400> 6
tctggtgaat tcattcagca taa 23

```
<210> 7
<211> 943
<212> DNA
<213> Homo sapiens
```

<220>
<223> cDNA encoding MCT-1

3

SECRET

<211> 181

<213> Homo sapiens

<223> MCT-1 Protein

Met Phe Lys Lys Phe Asp Glu Lys Glu Asn Val Ser Asn Cys Ile Gln
1 5 10 15

Phe Pro Gly Ile Glu Pro Trp Leu Asn Gln Ile Met Pro Lys Lys Asp
35 40 45

Asn Gly Glu Leu Leu Phe Phe Arg Gln Arg Glu Gly Pro Phe Tyr Pro
65 70 75 80

Val Asp Lys Gly Ala Ile Lys Phe Val Leu Ser Gly Ala Asn Ile Met
100 105 110

4

15

Ala Val Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala
35 40 45

Leu Asn
50

[illegible]